	Application No.	Applicant(s)
Notice of Allowability	09/522,819	VODANOVIC, BOJKO
	Examiner	Art Unit
	LUONG T NGUYEN	2612
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (Continuous to the continuous to the continuous to the continuous to the continuous to the office or upon petition by the applicant. See 37 CFR 1.313 and the continuous to the	OR REMAINS) CLOSED in thing the communication of the communication is subjected in the communication in the communication is subjected in the communication in the communication is subjected in the communication in the c	is application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-15</u> .		
3. \square The drawings filed on $___$ are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been copies of the priority documents have been copies of the certified copies of the priority documents have been copies of the priority documents have been copies of the priority documents have been copies of the certified copies of the priority documents have been copies of the priority documents have been copies of the certified copies of the priority documents have been copies of the certified copies of the certified copies of the priority documents have been copies of the certified copies of the certified copies of the priority documents have been copies. * Certified copies not received: 	een received. een received in Application N	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted informal patent application (PTO-152) which gives		
6. CORRECTED DRAWINGS (as "replacement sheets") must l	be submitted Applicant M	nust submit NEW FORMAL DRAWINGS
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO	t of BIOLOGICAL MATERI	IAL must be submitted. Note the
Attachment(s)	5 🗆 N II - 41 4	
 Notice of References Cited (PTO-892) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	5.	mal Patent Application (PTO-152)
 Information Disclosure Statements (PTO-1449 or PTO/SB/08) 	Paper No./Ma	il Date <u>121104</u> .
Paper No./Mail Date <u>11/22/00.</u>	_	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's Sta 9. ☐ Other	Itement of Reasons for Allowance
or Diological Material	5. [] Other	
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James Anglehart on 12/10/2004.

2. The application has been amended as follows:

In the specification, page 1 (line 3), "08/922,026 filed September 2, 1997." has been changed to --08/922,026 filed September 2, 1997, now U.S. Patent No. 6,335,757.--.

In the specification, page 5 (line 26), "CCD array array" has been changed to --CCD array--.

In the specification (Abstract page), page 16 (line 4), "interline transfer CCD sensor" has been changed to --frame transfer CCD sensor--.

3. The claims have been amended as follows:

area--.

Claim 1 (line 4), "said exposed area" has been changed to --said exposed image area--.

Claim 1 (lines 10-11), "said exposed area" has been changed to --said exposed image

Claim 1 (line 11), "and for pausing" has been changed to --and for causing image acquisition pausing involving pausing--.

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Claim 1 (line 12), "profile line image" has been changed to --profile line images--.

Claim 1 (line 14), "transfer of m" has been changed to --transfer of m lines--.

Claim 1 (line 17), "reading out m lines" has been changed to --reading out of said m lines--.

Claim 1 (lines 18-19), "said image are" has been changed to --said exposed image area--.

Claim 2 (line 3), "line thereon" has been changed to --line images thereon--.

Claim 15 (line 3), "profile line" has been changed to --profile line images--.

Claim 15 (line 4), "the said masked part" has been changed to --said masked part--.

Claim 15 (line 6), "said masked portion" has been changed to --said masked part--.

Claim 15 (line 7), "profile lines" has been changed to --profile line images--.

4. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Applicant must submit NEW FORMAL DRAWINGS.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

REASONS FOR ALLOWANCE

5. Claims 1-15 are allowable.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of the record fails to show or fairly suggest a high speed profiling imaging system using a frame transfer charge-coupled device (CCD) sensor, comprising a frame transfer controller generating a shift control signal for said line shift transfer

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mechanism to cause a rapid transfer of m lines from said exposed image area into said protected area, and for causing image acquisition pausing involving pausing said generating of said shift control signal to allow for image acquisition of said profile line images, wherein m is less than said n horizontal pixel lines, said frame transfer controller causing said transfer of m lines to provide more than one profile image per frame period; and a read-out controller generating a readout shift control signal for said readout mechanism, said read-out controller reading out said m lines during said pausing and then pausing until said transfer of said m lines from said exposed image area is completed by said frame transfer controller.

Claims 2-15 are allowable for the reason given respect to claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pfanhouser et al. (US 4,851,914) discloses high-speed full frame imaging CCD camera. Kokubo (US 5,298,734) discloses solid state image pickup apparatus with shutter signal and overflow drain.

Yamashita et al. (US 5,546,127) discloses solid-state imaging apparatus.

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Egawa et al. (US 5,572,256) discloses solid-state imaging apparatus.

Miethig et al. (US 5,923,370) discloses image smear and dark signal reduction device and

method.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LUONG T NGUYEN whose telephone number is (703) 308-

9297. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wendy Garber can be reached on (703) 305-4929. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN LN 12/11/04

AUNG MOE
PRIMARY EXAMINER